

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IE2004/000069

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 B65F1/14 B30B9/30

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 B65F B30B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/46042 A (T. ERNST) 28 June 2001 (2001-06-28) cited in the application page 6, line 11 - page 7, line 19 figure 4	1-6
X	US 4 658 720 A (H. MASSONNET) 21 April 1987 (1987-04-21) column 2, line 20 - column 4, line 9 figures 1-7	1-4
X	US 5 090 309 A (F. LAI) 25 February 1992 (1992-02-25) column 2, line 16 - column 3, line 26 figures 1-4	1-4

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

5 August 2004

Date of mailing of the international search report

12/08/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Smolders, R

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IE2004/000069

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0146042	A	28-06-2001	AU 2367801 A	03-07-2001
			CA 2394252 A1	28-06-2001
			CN 1413163 T	23-04-2003
			WO 0146042 A2	28-06-2001
			EP 1250274 A2	23-10-2002
			JP 2003517979 T	03-06-2003
			US 2003024419 A1	06-02-2003
US 4658720	A	21-04-1987	FR 2582288 A1	28-11-1986
			AT 37342 T	15-10-1988
			AU 578534 B2	27-10-1988
			AU 5764186 A	27-11-1986
			DE 3660758 D1	27-10-1988
			EP 0203018 A1	26-11-1986
			ES 294208 U	16-10-1986
			JP 2009684 C	02-02-1996
			JP 7025401 B	22-03-1995
			JP 61277501 A	08-12-1986
			ZA 8603587 A	25-11-1987
US 5090309	A	25-02-1992	NONE	